

i) benzaldehyde, THF/EtOH, r.t., 24h, ii) NaBH_4 , THF, r.t., 7h, 74% (2 steps total),
iii) 1-pyrenealdehyde, THF/MeOH, r.t., 20h, 93%, iv) NaBH_4 , MeOH, r.t., 3h, 92%
v) 2, K_2CO_3 , MeCN, reflux, 20h, vi) THF/water, r.t., 3h, 35%

Fig. 1

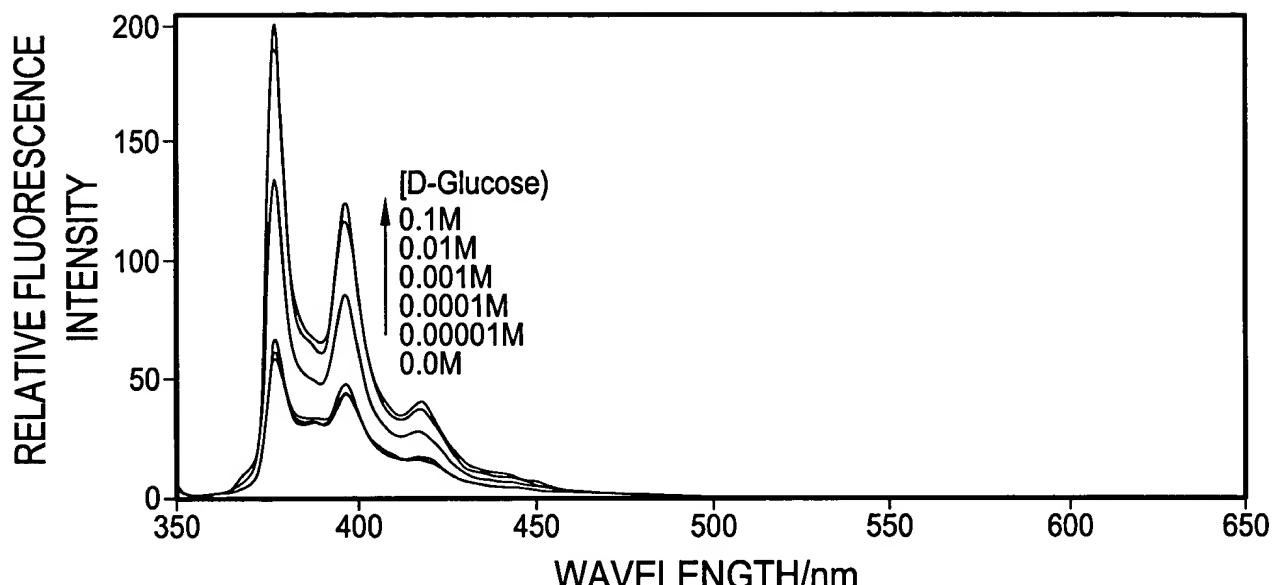


Fig. 2

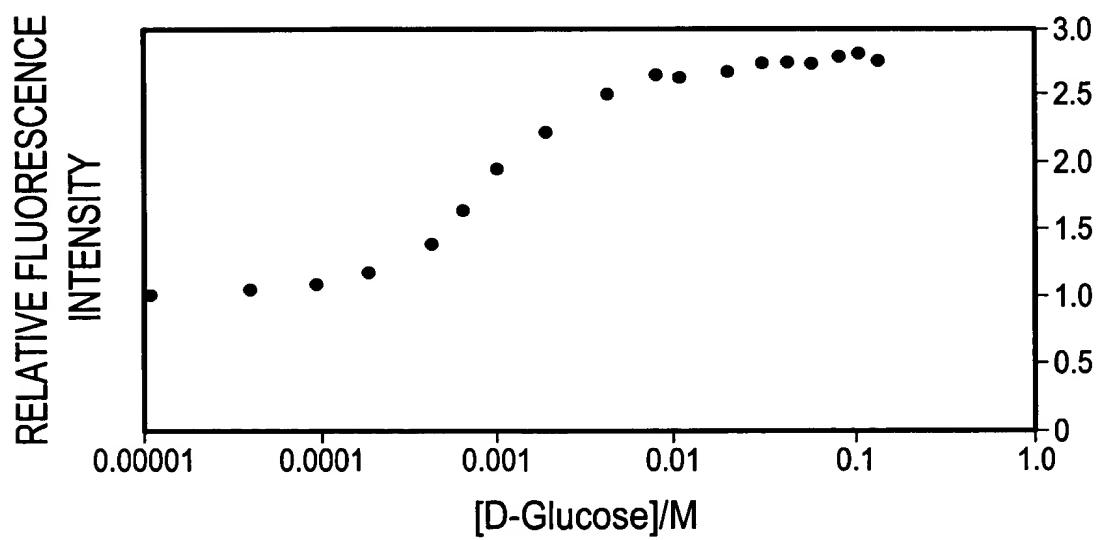


Fig. 3